

Spot Safety Project Evaluation

Project Information

Order ID: 41000030276

Project ID: 07-05-243

Location: SR 2131 (Northwest School Road) and SR 2128 (Bunch Road)

County: Guilford

City: Greensboro

Division: 7

Signal ID: N/A

Countermeasure: Construct right turn lane with concrete median on Northwest School Road.

Project Completion: January 26, 2010

Project Cost: \$160,000.00

Map and Aerial (from Google maps – Coordinates are 36.168282, -79.945514)



Naive Before and After Analysis

Before Period: July 1, 2005 through November 30, 2009 (4.4 years)

Const. Period: December 1, 2009 through January 31, 2010 (2 months)

After Period: February 1, 2010 through June 30, 2014 (4.4 years)

Analysis Criteria: Treatment data consisted of all crashes within 150 feet of the subject intersection for the SR 2131 and SR 2128 approaches.

Target Crashes: All crashes involving vehicles from or along the NB SR 2131 approach

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	6	4	-33.3%
Total Severity Index	3.5	4.7	34.0%
Target Crashes	4	4	0.0%
Target Crash Severity Index	1.0	4.7	370.0%
Volume (2007, 2012)	7,200	6,800	-5.6%

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal Injury Crashes per Year	0	0	-
Class A Injury Crashes per Year	0	0	-
Class B Injury Crashes per Year	0	1	100.0%
Class C Injury Crashes per Year	2	1	-50.0%
Property Damage Only per Year	4	2	-50.0%

Overall Summary Results

Total Crashes:	-33.3 %	(Reduction)
Total Crash Severity:	34.0 %	(Increase)
Target Crashes:	0.0 %	(No Change)
Target Crash Severity:	370.0 %	(Increase)
Volume:	-5.6 %	(Reduction)

Items for Discussion/Concerns

The total crashes experienced a decrease of 33.3% (6 to 4) between the before and after periods. The amount of target crashes did not change between the before and after periods. The total crash severity increased by 34.0% and the target crash severity increased by 370.0%.

All crashes involving vehicles from or on the Northbound SR 2131 approach were chosen as the target crashes to measure the effect of altering the approach by adding a right turn lane.

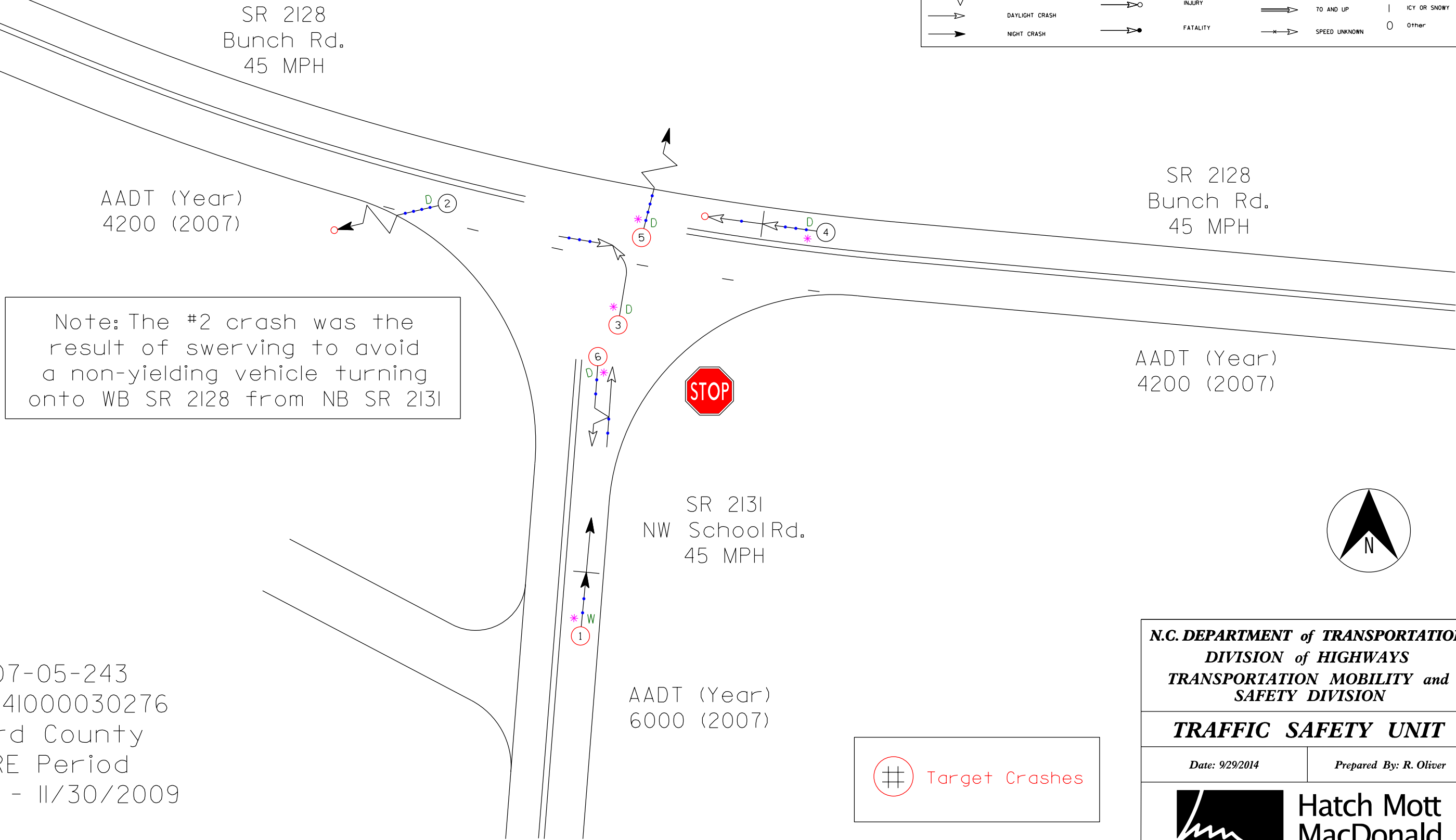
Data Prepared For

The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

Principal Investigator:	Ross Oliver
Work Group/Consultant:	Hatch Mott MacDonald
Date:	October 8, 2014

LEGEND			
	MOVING VEHICLE		ANGLE
	PARKED VEHICLE		TURNING
	PARKING VEHICLE		BACKING
	MOVABLE OBJECT		SIDESWIPE
	HEAD ON		INJURY
	REAR END		FATALITY
	RAN OFF ROAD		9 MPH OR LESS
	DAYLIGHT CRASH		10 MPH TO 19
	NIGHT CRASH		20 MPH TO 29
			30 MPH TO 39
			40 MPH TO 49
			50 MPH TO 59
			60 MPH TO 69
			70 AND UP
			SPEED UNKNOWN
			STOP SIGN
			A ANIMAL
			P PEDESTRIAN
			B BICYCLE
			T TRAIN
			* DRIVER AT FAULT
			D DRY
			W WET
			I ICY OR SNOWY
			O Other




SS# 07-05-243
Order# 41000030276
Guilford County
BEFORE Period
7/1/2005 - 11/30/2009

N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
TRANSPORTATION MOBILITY and SAFETY DIVISION

TRAFFIC SAFETY UNIT

Date: 9/29/2014

Prepared By: R. Oliver



Hatch Mott MacDonald

SR 2128
Bunch Rd.
45 MPH

AADT (Year)
4200 (2012 est.)


































SR 2128
Bunch Rd.
45 MPH

AADT (Year)
4200 (2012 est.)

SR 2131
NW School Rd.
45 MPH

AADT (Year)
5150 (2012 est.)

SS# 07-05-243
Order# 41000030276
Guilford County
AFTER Period
2/1/2010 - 6/30/2014

LEGEND							
	MOVING VEHICLE		ANGLE		9 MPH OR LESS		STOP SIGN
	PARKED VEHICLE		TURNING		10 MPH TO 19		ANIMAL
	PARKING VEHICLE		BACKING		20 MPH TO 29		PEDESTRIAN
	MOVABLE OBJECT		SIDESWIPE		30 MPH TO 39		BICYCLE
	HEAD ON		INJURY		40 MPH TO 49		DRIVER AT FAULT
	REAR END		FATALITY		50 MPH TO 59		DRY
	RAN OFF ROAD				60 MPH TO 69		WET
	DAYLIGHT CRASH				70 AND UP		ICY OR SNOWY
	NIGHT CRASH				SPEED UNKNOWN		Other



 Target Crashes

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**Hatch Mott
MacDonald**